

U.S. Department of Commerce  
Patent and Trademark Office

## FEE TRANSMITTAL

Complete if shown

Application Number	08/835,419
Filing Date	April 9, 1997
First Named Inventor	Fraas
Group Art Unit	1312
Examiner Name	T. McMahon
Attorney Docket Number	

TOTAL AMOUNT OF PAYMENT (\$ 41.00

## METHOD OF PAYMENT (check one)

1 ☐ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit

Account Number 02-3704

Deposit

Account Name James C. Wray

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17☐ Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b)2 ☒ Payment Enclosed:☒ Check☐ Money Order☐ Other

(reserved space)

## FEE CALCULATION (fees effective 1/1/96)

## 1 FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	780	201	390	Utility filing	
106	300	206	150	Design filing fee	
107	540	207	270	Plant filing fee	
108	780	208	390	Reissue filing fee	

SUBTOTAL (1) (\$)

## 2 CLAIMS

Total Claims  - 20 =  <sup>Extra</sup> ☒ <sub>below</sub>  = Independent Claims  - 3 =  <sup>Extra</sup> ☒ = Multiple Dependent Claims  = 

## Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
102	78	202	39	Independent claims in excess of 3
103	22	203	11	Claims in excess of 20
104	250	204	125	Multiple dependent claim
109	78	209	39	Reissue independent claims over original patent
110	22	210	11	Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

## 3 ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge-late filing fee or oath	
139	130	139	130	Non-English specification	
147	2,390	147	2,390	For filing a request for reexamination	
112	870	112	870	Requesting publication of SIR prior to Examiner action	
113	1,740	113	1,740	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for response within first month	
116	380	216	190	Extension for response within second month	
117	900	217	450	Extension for response within third month	
118	1,400	218	700	Extension for response within fourth month	
119	290	219	145	Notice of Appeal	
120	290	220	145	Filing a brief in support of an appeal	
121	250	221	125	Request for oral hearing	
138	1,430	138	1,430	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive unavoidably abandoned application	
141	1,250	241	625	Petition to revive unintentionally abandoned application	
142	1,280	242	640	Utility issue fee (or reissue)	
143	420	243	210	Design issue fee	
144	660	244	330	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
126	220	126	220	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (x no. properties)	
?	220	?	220	Protest after application published	
?	1500	?	1500	Late Claim for priority during pendency	
114	150	214	75	Provisional Application filing	
Other fee (specify)				1 x independent claim	41
Other fee (specify)					

SUBTOTAL (3) (\$ 41.00

## SUBMITTED BY

Typed or Printed Name

James C. Wray

Signature

*J C Wray*

Date

4-14-98

## Complete (if applicable)

Reg. Number

22,693

Deposit Account  
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Burden Hour Statement: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231, and to the Office of Information and Regulatory Affairs, Office of Management and Budget (Project 0651-0032), Washington DC 20503. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

04/14/98



Hy/A  
4/23/98  
Kv

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
FRAAS et al.

Serial No. 08/835,419

Art Unit: 1312

Filed: April 9, 1997

Examiner: T. McMahon

For: PRETREATMENT PROCESS TO REMOVE OXYGEN FROM COAL EN ROUTE TO  
A COAL PYROLYSIS PROCESS AS A MEANS OF IMPROVING THE QUALITY  
OF THE HYDROCARBON LIQUID PRODUCT

RESPONSE

To the Commissioner of Patents and Trademarks

Sir:

In response to the Office Action dated January 14, 1998,  
kindly amend the application as follows:

In the Claims:

Page 25, line 1, change "I claim" to --We claim--.

Kindly rewrite the following claim:

22. (Amended) [The] A process of coal pyrolysis  
pretreatment [using the apparatus of claim 1] comprising  
providing a pretreatment vessel for holding a bed of coal  
particles, heating the bed of coal particles to a temperature  
below the coal pyrolysis temperature range in a preheater,  
preventing air from contacting the bed of coal particles in an  
enclosure around the vessel, and removing the oxygen released  
from the heated coal particles and transporting it away from the  
enclosure for keeping the partial pressure of oxygen in the